UNIVERSITY OF LOUISVILLE

Proposed Projects Involving the General Fund (cash or bonds)

(amounts in **bold** are the total budget)

2012-2014

(Projects listed by agency priority; descriptions are from the agency submission)

1. Construct - Belknap Classroom/Academic Building

\$77,580,000

This authorization allows the construction of a new 155,000 gross square feet (GSF) interdisciplinary classroom building. The new building will provide office space for the departments in the College of Arts and Sciences along with needed high-technology classrooms and student laboratories to facilitate instruction for both undergraduate and graduate students. (C-O) The VFA/Paulien KPES 2008-2010 Updated Space Model found that UofL has a current deficit of 68% in classroom space. By 2020, the study projected a deficit of 154,503 ASF, or a 118% deficit. *Staff Notes:*

- The VFA/Paulien KPES 2008-2010 Updated Space Model found that UofL has a current deficit of 68% in classroom space. By 2020, the study projected a deficit of 154,503 assignable square feet or a 118% deficit. The study also projected a deficit of 101,558 assignable square feet of teaching labs.
- This project was the university's #1 GF priority in its 2010-2016 plan. Budget estimate has been updated for inflation.
- The project received authorization in previous budgets, however, the funding was unavailable to undertake it.

2. Construct - Instructional Building at HSC

\$67,000,000

This project will construct new instructional space while renovating existing instructional areas along with the Kornhauser Library to serve the academic needs of the Health Sciences Center. The following scope is planned: • Construct an in-fill building of approximately 81,000 GSF to the HSC Quadrangle to provide state-ofthe-art instructional facilities including two large lecture halls seating approximately 200 students, a series of smaller seminar rooms, computer testing facilities, and a new Gross Anatomy Instructional Laboratory. The new Gross Anatomy Lab will support the increase in class size of both the Schools of Medicine and Dentistry, and will allow for the installation of imaging and computer-based instructional systems for the display of MRI, computer tomography and x-ray images to simulate diagnostic tools used in current professional practice. • Existing instructional space will be renovated to expand the current clinical skills and simulation training facility, and to create additional small group and student study spaces. The Kornhauser Health Sciences Library/ Commons, a 72,147 GSF facility serving the research and academic needs of Medical, Dental, Nursing, Public Health and Informational Science programs for undergraduate, graduate and post-doctoral programs will also be renovated. The present facility has not undergone major modernization since it was constructed in 1970. The renovation will upgrade the facility to accommodate modern computerbased learning and research technology. It is essential that the building receives total modernization, including replacement of mechanical, electrical, and voice/data systems along with being re-configured to meet the needs of new teaching procedures that stress group-based learning and problem solving in a technology rich environment. The overall layout will also be modified to enhance support of the instructional programs by providing greater access to technology and multi-purpose study spaces. (C-O)

Staff Notes:

• Project was listed as U of L's #4 GF Priority (\$42,420,000) in its last capital plan. The original project called for an approximate 51,000 square foot building. However, the scope has increased based on preliminary programming to construct an approximately 81,000 GSF building and to account for inflation.

3. Construct - Belknap Research/Academic/Conn Ctr

\$94,235,000

This authorization allows the construction of a new 157,000 GSF interdisciplinary classroom building/research facility on the Belknap Campus. The new building will provide approximately 33,000 GSF of research expansion space, including additional laboratories, laboratory support areas, and principal investigator's office space for the CONN Center for Sustainable Energy Research. The remaining 124,000 GSF will be designed to include needed high-technology classrooms, faculty office space, and student laboratories to facilitate instruction for both undergraduate/graduate students in the areas of science, technology, engineering, and mathematics (STEM). This facility is extremely high priority in meeting the University mandate to increase graduation of students ready for the new science/high technology based economy and to facilitate increasing the University's translational research capabilities for benchtop to workplace R & D needed for tomorrow's knowledge based economy. The VFA/ KPES 2008-2010 Updated Space Model found that UofL has a current deficit of 68% in classroom space. By 2020, the study projected a deficit of 154,503 ASF or a 118% deficit. The study also projected a deficit of 101,558 assignable square feet of teaching labs, 1,437,781 ASF of research space, 29,072 ASF of open labs and 473,088 ASF of office space by 2020. (C-O)

Staff Notes:

- This project has been included in two previous capital plans and has received authorization in a previous budget. However, no funding has been available to undertake the project.
- Project was listed as GF Priority #3 in U of L's last plan. The scope has been adjusted for inflation from \$90,000,000 to \$94,235,000.

4. Expand & Renovate - Life Sciences Building

\$64,289,000

This authorization will renovate the existing 117,800 GSF facility, originally constructed in 1969, including correcting deficiencies by renewing the entire building infrastructure. Existing labs will be renewed and new research labs will be created in the existing building. Additionally, a 48,000 GSF addition will be constructed for relocation of teaching labs, creating a modern, media rich lab/classroom environment integrating interactive technologies to support and enhance the classroom and laboratory experience. Multi-media audiovisual equipment is becoming commonplace not only in the classrooms, but in the teaching laboratories as well. The VFA/Paulien KPES 2008-2010 Updated Space Model found that UofL has a current deficit of 63%

in classroom space. By 2020, the study projected a deficit of 154,503 ASF, or a 118% deficit. The study also projected a deficit of 101,558 assignable square feet of teaching labs and 1,437,781 ASF of research labs by 2020. This facility is extremely high priority in meeting the University mandate to increase graduation of students ready for the new science/high technology based economy and to facilitate increasing the University's translational research capabilities for bench-top to workplace R & D needed for tomorrow's knowledge based economy. (C-PI) *Staff Notes:*

- This renovation is needed to correct deficiencies in the ventilation and electrical systems along with modernization of teaching and laboratory space. Existing labs will be improved and new labs will be created in the space in the lower level of the Life Sciences Building.
- This project has appeared in previous capital plans and received budget authorizations dating back to 2002-2008. However, funding has not been available to complete the project.
- The project budget has increased since the last plan submittal from \$57,790,000 to \$64,289,000 due to inflation.

5. Renovate - Capital Renewal Pool (2012-2014)

\$24,083,000

The Capital Renewal Pool will allow the university to address approximately ten types of projects: roof replacement, windows, exterior building upgrades, interior building upgrades, walking surfaces, electrical upgrades, data collection and security panels, emergency generators, mechanical upgrades, and carpet/floor tile. (C-PI) *Staff Notes:*

- Capital renewal pools are also proposed for 2014-2016 (\$17,168,000) and 2016-2018 (\$11,567,000).
- Funds would be appropriated as follows: roof replacement projects (\$2,614,000); various exterior building upgrades (\$3,593,000); various interior building upgrades (\$2,328,000); site upgrades (\$655,000); electrical/life safety upgrades (\$2,250,000); and mechanical upgrades (\$12,643,000).

6. Renovate - Medical Dental Research Building

\$56,345,000

The project will renovate 116,672 GSF of the Medical-Dental Research Building, constructed in 1962, into modern efficient research facilities. Redevelopment of research space in the building will support the expanding research requirements of the Kentucky Spinal Injury Research Center, neuroscience research and other emerging research initiatives by renewing the entire facility to accommodate intra-disciplinary research and access to shared core research facilities to support growth initiatives on the Health Sciences Center Campus. This facility is extremely high priority in meeting the University mandate to increase the bio-medical translational research capabilities needed for tomorrow's knowledge based economy and in providing for the health of the citizens of the Commonwealth. The project will include phased replacement of all mechanical, plumbing, and electrical systems throughout the facility; as with all major renovations of university facilities, the project will be designed and constructed to be highly energy efficient and fully compliant with High-

performance Building Standards including LEED Silver certification and all applicable codes. (C-PI)

Staff Notes:

- Though parts of this facility have been renovated into very functional research laboratories and associated support spaces over the last few years, none of the projects have addressed the aging infrastructure of the building as a whole. This project will bring the remainder of the facility to the same quality and prepare the facility to meet the future research needs of the University's Health Sciences Center.
- The scope of project has been reduced from \$61,554,000 in the last plan to \$56,345,000. A previously included an MRI imaging suite, which is now being done as a separate project in a different building is not included in the scope. The remaining scope estimate has been adjusted for inflation.

2014-2016

(Projects listed in alphabetical order)

Construct - Shelby Campus Research Building	\$61,010,000
Renovate - Capital Renewal Pool	\$17,168,000

2016-2018

(Projects listed in alphabetical order)

Construct - Belknap Research Building II	\$84,790,000
Construct - HSC Research Facility VI	\$190,000,000
Renovate - Capital Renewal Pool (2016-2018)	\$11,576,000

UNIVERSITY OF LOUISVILLE

Proposed Projects Involving Agency Bonds

(amounts in **bold** are the total budget)

2012-2014

(Projects listed by agency priority; descriptions are from the agency submission)

1. Renovate - Medical/Dental Apartments to Offices

\$16,460,000

This project would renovate the 78,685 gross square foot Medical/Dental Apartments building on the Health Sciences Center campus into office space. (C-PI)

2. Purchase - Land Support Service (Northeast Quad)

\$15,000,000

This project will allow the university to continue to acquire property consistent with its land use plan to deal with the developmental and expansion needs of Belknap Campus. The property includes five buildings on 4.762 acres of land. The university is currently leasing the land and buildings. The land will be used to consolidate the support services programs to the northeast quadrant of campus. (C-O)

3. Renovate - Guaranteed Energy Savings (2012-2014)

\$20,000,000

This project will allow U of L to enter into an agreement with a Performance Contractor to reduce energy usage. Energy savings will be used to pay for facility upgrades/modifications – this will apply to several campus buildings. (C-O)

4. Expand & Renovate - Student Activities Center

\$42,654,000

This project would allow for a renovation and renewal of portions of the existing Student Activities Center and build a 10,000 gross square foot addition. (C-PI)

5. Construct - HSC Parking Structure III

\$44,949,000

This project will construct a third parking garage on the HSC campus with 2100 spaces at Chestnut & Clay Streets. (C-O)

6. Construct - Belknap Parking Garage II

\$42,270,000

This project will construct a 2000-space parking garage on Belknap Campus just west of 4th Street between Cardinal Boulevard and Bloom Street. (C-O)

2014-2016

Construct - Residence Hall, 500 Bed

\$41,208,000

2016-2018

None

UNIVERSITY OF LOUISVILLE

Proposed Projects NOT Involving the General Fund, Road Fund, or Agency Bonds (amounts in **bold** are the total budget)

2012-2014

(Projects listed in alphabetical order)

Construct - Administrative Office Building

48,654,000 RF

This project would construct a new 192,780 gross square foot building on the northwest corner of the Belknap Campus to house various university administrative offices and would also include leasable retail/office space. (C-O)

Construct - Artificial Turf Field for Intramural

693,000 RF

This project would replace the natural grass field used by the intramural program and the marching band with a synthetic turf field with underfield drainage system. (C-O)

Construct - Athletic Academic Support Facility

16,228,000 OT-P

This project is to construct a 46,200 GSF facility to house the university's athletic academic support functions. The building upon completion will house the following student/athlete functions: classroom/tutoring areas; student lounges; seminar/conference space; and athletic training table food service. (C-O)

Construct - Athletics Office Building

7,045,000 RF

This project would construct a 25,000 gross square foot building for athletic administration to include minor sport coaching and administrative staff offices to be relocated from the former football training building off campus at the Kentucky Fair & Exposition Center. (C-O)

Construct - Belknap 3rd Street Improvements

1,950,000 RF

This project would provide pedestrian improvements along the 3rd Street corridor on Belknap Campus. (C-O)

Construct - Belknap Brandeis Corridor Imp

2,774,000 RI

This project would provide pedestrian improvements along the Brandeis Street corridor on Belknap Campus. (C-O)

Construct - Belknap Center Place Plaza

7,883,000 RF

Center Place, located in the heart of the campus, is proposed to be the most important open space on campus. The intent is to create a vibrant new image place and campus symbol for the University. It would define the center of the campus and become the most iconic campus space. It would give structure to the campus by becoming the foremost in the hierarchy of campus spaces and it would set a new standard of campus open space design. The space itself extends from the Natural Science Building and its proposed addition on the south to the Life Science Building on the north. It is in reality two separate spaces on either side of Gardiner Hall linked by walkways on either side of that building. (C-O)

Construct - Belknap Century Corridor Improvement 890,000

This project would make improvements in the Century Corridor area of Belknap Campus. Century Corridor extends from Houchens to 3rd Street passing south of Belknap Research, Humanities and the Library, and crossing Center Place just north of Gardiner Hall. (C-O)

RF

RF

RF

Construct - Belknap Floyd St Corridor Imp 3,500,000

This project will provide safety and aesthetic improvements along Floyd Street on Belknap Campus. The Floyd Street Corridor project will improve pedestrian safety along the Floyd Street corridor in a similar manner as the recently completed improvements along Eastern Parkway. (C-O)

Construct - Belknap Stormwater Improvements 5,000,000 RF

This project would improve stormwater runoff and retention on Belknap Campus to aid in prevention of flooding on campus. (C-O)

Construct - Center for Creative Studies 9,450,000

This project would build a 20,400 square foot building to house the Center for Creative Studies for the Fine Arts Department. (C-O)

Construct - Center for the Performing Arts 76,660,000 RF

This project would construct a 126,000 gross square foot performing arts facility on Belknap Campus to replace aging facilities and consolidate theater arts performing space into one location. (C-O)

Construct - Chestnut Street Garage Speed Ramp 875,000 RF

This project would construct a new ramp on the south side of the Chestnut Street Garage on the Health Sciences Center campus. (C-O)

Construct - Diversity Center for Excellence 12,580,000 OT-P

This project calls for the construction of a new 35,000 square foot facility that will house the current Multicultural Center, Office of Minority Affairs and the Upward Bound program (and other TRIO programs pending federal funding). The multicultural programs and services under the auspices of the Vice Provost for Diversity are housed in three different buildings. (C-O)

Construct - Executive MBA/Business Program 23,500,000 RF

This authorization will allow construction of a new 50,000 GSF Executive /Business studies facility in downtown Louisville. The new building will provide classroom and interactive instructional spaces for experienced professional and graduate level students seeking advanced degrees while maintaining their current professional careers. (C-O)

Construct - Flexner Way Mall-Floyd to Preston 1,660,000 RF

This project would reconfigure the block of Abraham Flexner Way between Floyd and Preston Streets as a pedestrian mall and restricted use service access corridor to facilities' loading docks. (C-O)

Construct - Flexner Way Mall-Jackson to Hancock

750,000 RF

This project would reconfigure the block of Abraham Flexner Way between Jackson and Hancock Streets as a pedestrian mall, enhancing visitor, student, faculty and staff movement between the various buildings. (C-O)

Construct - Flexner Way Mall-Preston to Jackson

840,000 RF/OT-P

This project would reconfigure the block of Abraham Flexner Way between Jackson and Preston Streets as a pedestrian mall, enhancing visitor, student, faculty and staff movement between the various buildings. (C-O)

Construct - HSC Research Facility V

178,760,000 RF

This authorization will allow the construction of a 292,000 GSF facility, which is needed to further the research capacity of the Health Sciences Center. The continued recruiting of new investigators requires new research space to meet the future demands. This facility will be located on Hancock Street between Abraham Flexner Way and Chestnut Street and will provide vital research space for the research programs on the Health Sciences Center campus. (C-O)

Construct - HSC Steam/Chilled Water Plant II

34,595,000 RF

This project will construct a 30,000 GSF satellite steam/chilled water plant to serve the eastern portion of the Health Sciences Center campus. Construction features will include a new 6,000-ton chiller and boilers with a capacity to produce 50,000 pounds of steam per hour along with the needed electrical infrastructure to support power distribution. The new plant will tie in by extension of steam/chilled tunnel system allowing limited emergency support of these systems across the entire HSC Campus. (C-O)

Construct - Intramural Field Complex

7.234.000 RF

RF

This project would construct a six-field intramural complex with a facilities building and integrated cardio-path. (C-O)

Construct - Physical Plant Space in HSC Garage 2,318,000

This project would create new space for the Physical Plant department at the Health Sciences Center campus by consolidating current office, support, and shop operations allowing adequate expansion to support growth in both the University's research and academic space on the HSC Campus. The addition of the following new research facilities necessitates this project: Cardiovascular innovation Institute (66,727 GSF); the new School of Public Health and Information Sciences (36,210 GSF); and the Clinical and Translational Research Building (287,000 GSF) (C-O)

Construct - Soccer Stadium

16,119,000 OT-P

This project would construct a 3,500-seat soccer stadium on Belknap Campus. (C-O)

Construct - Utilities, Remove Overhead Lines

10,350,000 RF

This project will install underground high voltage electrical circuits along Floyd Street and Third Street adjacent to Belknap Campus to replace existing overhead lines. (C-O)

Expand - Ambulatory Care Bldg. Academic Addit 72,649,000 OT-P

This 198,005 gross square foot addition to the Ambulatory Care Building (ACB) will house most of the clinical departments for the School of Medicine and educational and administrative offices for the UofL Hospital. The School of Medicine has not built educational facilities since 1972 and the clinical departments' faculty numbers have more than doubled in the interim. This will allow University Medical Center, Inc. (lease UofL Hospital) to renovate the Ambulatory Care Building to become a more efficient and effective outpatient care center while placing the clinical departments in closer proximity to one another allowing for enhanced communication and greater synergy. (C-O)

Expand - Chilled Water and Electrical Ser Upgrade 12,750,000 RF

The chilled water, electrical, and steam distribution systems on Belknap Campus are at or near capacity as well as having reached or surpassed their expected useful life in some cases. As well, the University is hampered in by its inability to provide these vital services to existing research or academic buildings or to those which will be added on the campus. This project will expand the central chiller plant, electrical room, provide larger electrical services for the campus, provide backup electrical feeders, and expand the steam and chilled water tunnel to the south end of the campus and connect it into a loop that would go under Eastern Parkway. It will also add cooling towers and chillers at the central plant as part of this project. (C-PI)

Expand - Miller IT Center Data Center

38,000,000 RF

This project would build an addition onto the Miller Information Technology Center to expand the data processing center and increase building infrastructure to support the requirements of state-of-the-art academic and research computational needs. (C-O)

Expand - Patterson Baseball Stadium

4,573,000 OT-P

This project would construct a 2,000-seat addition to the Jim Patterson Baseball Stadium, including expanded restroom, locker and concessions facilities. (C-O)

Expand - Rauch Planetarium

3,220,000 FF

This project would construct an approximately 3,000 gross square foot addition to the Rauch Planetarium on Belknap Campus. (C-O)

Expand - Sackett Hall

14,758,000 RF

The project would construct a 25,800 GSF addition to the existing Sackett Hall building serving the academic and research needs of the Speed Mechanical Engineering Department. (C-O)

Expand - School of Public Health & Info Sciences 11,561,000 RF

This project would add a 21,000 gross square foot addition to the School of Public Health on the Health Sciences Center campus. (C-O)

Expand - Trager Indoor Practice Facility

1.000.000 OT-P

This project will expand the Trager Center and add a satellite training room for all sports teams to use. (C-O)

Expand - Ulmer Softball Stadium

2,600,000 OT-P

This project would add a terrace, expand the pressbox, add locker rooms, add team meeting space and add concessions stand areas to the Ulmer Softball Complex. (C-O)

Expand & Renovate - Founders Union Bldg Phase II 19,112,000 RF

The project will develop a 54,570 GSF Continuing Education, Professional Development and Conference Center on the University's Shelby Campus. The project includes renovation of 34,570 GSF and construction of a 20,000 GSF addition to the current Founders Union Building. (C-PI)

Lease - Digital Output System

2,500,000 RF

Network digital output system to provide high volume output for research, instructional, and institutional documents. This network digital output system will be an upgrade/replacement to existing network digital output systems. Dependent upon the technology available and volume necessary to meet the increased needs of the university faculty, staff, students, and administrators. (IT)

Purchase - 3D Surface Deformation Measurement 200,000

This equipment (3D Surface Deformation Measurement) will be used by the Mechanical Engineering department of the Speed School to perform real-time deformation analysis of microscale devices. (EQ)

Purchase - Additive Microdeposition Machine

825,000 FF

FF

This equipment (Additive Deposition Machine) will be used by the Rapid Prototyping Center (RPC) of the Speed School to create prototypes with fine features. (EQ)

Purchase - AMTI Split-Belt Instrumented Treadmill 270,000 RF

The instrumented treadmill will give us the ability to measure ground reaction forces during every step. This is critical information when looking at data from individuals with spinal cord injury during stepping with BWS, since sensory information from load has been shown to be interpreted by the injured spinal cord. The split belt design will also grant us the opportunity to step one leg at a time to assess the interlimb coordination in individuals with SCI. (EQ)

Purchase - Artificial Turf - Practice Field Faci 865,000 OT-P

This authorization will purchase and install approximately 100,000 square feet of artificial turf to an outdoor practice field that can be used throughout the year. This facility will serve various programs. (C-O)

Purchase - Artificial Turf for Field Hockey 1,000,000 OT-P

This project will replace the artificial turf at the field hockey stadium. (C-O)

Purchase - Artificial Turf for Papa John's Stadium 1,000,000 OT-P

This project will replace the artificial playing surface on the football game field, a total of 103,104 square feet of playing surface. (C-PI)

Purchase - Atomic Force Microscope

600,000 \mathbf{FF}

This equipment (Atomic Force Microscope) will be used by the BioEngineering department of the Speed School for investigation of nano-scale material and biological interactions. (EO)

Purchase - Atomic Layer Deposition System

500,000 FF

This equipment (Atomic Layer Deposition System) will be used by the Lutz Micro/Nano Technology Center (MNTC) of the Speed School. It will apply atomically thin films of materials for advanced sensors and devices. (EQ)

Purchase - Automatic Bedding Dispensing & Remove 278,000 RF

More efficient and safe means of supplying and discarding clean and soiled animal bedding. (EQ)

Purchase - BD FACSAria III Cell Sorter

350,000 \mathbf{FF}

High speed cell sorter used in basic and translational research studies. (EQ)

Purchase - BD LSR II Fluorescence Asst Cell Sort

200,000

FF

 \mathbf{FF}

Biomedical research in many areas, especially cancer research require the ability to label and sort cells into separate populations, which this instrument does. (EQ)

Purchase - Biological Material Deposition Machine 600,000

This equipment (Biological Material Deposition Machine) will be used by the Rapid Prototyping Center (RPC) of the Speed School to prepare prototypes for bio-medical applications. (EQ)

Purchase - Bulk Sterilizer

421,000 RF

More efficient means of providing sterilized caging equipment to irreplaceable animal colonies. (EQ)

Purchase - Cage and Rack Washer

398,000 RF

Current equipment surpassed useful expectancy and costly to maintain. (EQ)

Purchase - Cathodoluminescence System

230,000 \mathbf{FF}

This equipment (Cathodoluminescence System) will be used by the Conn Center of the Speed School for high resolution imaging and spectroscopy for materials research. (EQ)

Purchase - Chemical Vapor Deposition System

500,000 FF

This equipment (Chemical Vapor Deposition System) will be used by the Electrical and Computer Engineering (ECE) department of the Speed School. It will prepare microelectronic devices for sensors and actuators. (EQ)

Purchase - Classroom AV Recording Equipment

600,000 RF

This equipment is a JAVS A/V recording system for classrooms (IT)

Purchase - Computational Cluster System

1,500,000 RF

This equipment will be used by the Computer Engineering/Computer Sciences Department of the Speed School. This is used for high performance computing for bioinformatics and computer forensics. (IT)

Purchase - Computer Processing System

8,000,000 RF

Computer processing systems to provide computing resources in support of administration, instruction and research for faculty, staff, and students. This computer processing system will be an upgrade/replacement to existing enterprise systems depending upon the technology available and service needs in the respective fiscal year. Necessary to meet the increased computing needs of the university faculty, staff, student, and administrators. (IT)

Purchase - Confocal Microscope

250,000 RF

Facilitates three dimensional analyses of cell structures and intracellular processes. Also used to analyze microbial biofims in three dimensions. (EQ)

Purchase - Confocal Microscope

300.000 FF

This equipment (Confocal Microscope) will be used by the BioEngineering department of the Speed School for imaging of biological specimens. (EQ)

Purchase - Digital Communications System

6,000,000 RF

Equipment for digital transmission of data, voice, and video to upgrade and enhance the university communications network. It meets the demand for integrated voice, data, and video technology on both a local and state-wide basis. The Digital Communication System will be an upgrade/replacement to existing enterprise and communications network infrastructure systems dependent upon the technology available and service needs in the respective fiscal year. The systems are necessary to meet the increased communications needs of the university faculty, staff, student, and administrators. (IT)

Purchase - Electronic Research Information System 2,700,000 RF

On-going project designed to improve access to electronic research information. This enables students, faculty, and researchers to remotely access information anytime, anywhere via the Internet by logging on to the UofL Libraries Web site. (IT)

Purchase - Enterprise Application System

6,000,000 RF

Enterprise software applications to support University operations. Enterprise application will provide academic and institutional support in the delivery of instruction and research. (IT)

Purchase - Equipment Replacement Research & Inst 15,000,000 RF

For U of L to attain its goal of becoming a pre-eminent metropolitan research university, it is essential that the university have the ability to replace outdated research and instructional equipment. Research initiatives that are being developed include bioinformics, for which computer hardware and software are needed, in-vivo imaging, and clinical and translational science. The university must acquire new equipment as part of the infrastructure necessary to pursue programs of research to benefit students, staff, faculty, the university community as well as the Commonwealth. (EQ)

Purchase - Etch System

300,000 FF

This equipment (Etch System) will be used by the Electrical and Computer Engineering (ECE) department of the Speed School for microelectronics research. It will be used to etch metals and dielectrics for microfabricating devices with very small features. (EQ)

Purchase - FACSAria II Special Order System

530,000 FF

High Speed cell sorting and characterization of cells by flow cytometry with the FACSAria II is essential for collection and characterization of cells used in basic and translational research studies. (EQ)

Purchase - Fiber Infrastructure

7,000,000 RF

This project will expand the university's fiber backbone network in the metropolitan Louisville area. This project will expand the university's ability to meet its missions of education, service and economic development. (IT)

Purchase - Fluorescence Imaging System

200,000 FF

The equipment (Fluorescence Imaging System) will be used by the Bioengineering department of the Speed School. Multimode image scanner used to create fluorescence or chemiluminescent samples for investigating biological systems. (EQ)

Purchase - Focused Ion Beam Microscope

1,800,000 FF

This equipment (Focused Ion Beam Microscope) will be used by the Electrical and Computer Engineering (ECE) department of the Speed School to characterize structure and composition in nanomaterials using high resolution imaging for materials research. (EQ)

Purchase - Gene Chip Scanner

250,000 FF

This equipment (Gene Chip Scanner) will be used by the BioEngineering department of the Speed School to characterize gene structure of bio-organisms for disease diagnosis and treatment. (EQ)

Purchase - High Resolution Triple TOF Mass Spect 400,000 FF

This will be used for routine mass spectrometry and is also capable of acquiring direct sequence information. AB SCIEX triple will functionally replace the current workload of an older LCMS instrument (EQ)

Purchase - Illumina Genome Analyzer

610,000 FF

This equipment (Illumina Genome Analyzer IIe) will be used by the Dental School in the School of Medicine. DNA methylation plays a critical role in the regulation of gene expression and has been implicated in the etiology of several birth defects. In addition to sequencing-based methylation analysis, the Illumina Genome Analyzer IIe high—throughput platform will enable researchers in the Birth Defects Center and COBRE to perform investigation of genetic/epigenetic alterations in the developing embryo, including such approaches as modifications and DNA-protein interactions across the entire genome, DNA sequencing, gene regulation analysis, sequencing-based transcriptome analysis, SNP discovery and structural variation analysis, cytogenetic analysis, DNA-protein interaction analysis (chip-seq) and small RNA discovery and analysis. This core instrumentation within the Birth Defects Center will potentiate multiple research programs in the field of embryonic development, including those programs investigating the effects of cigarette exposure on embryonic development. (EQ)

Purchase - Imprint Lithography System

250,000 FF

RF

RF

This equipment (Imprint Lithography System) will be used by the Lutz Micro/Nano Technology Center of the Speed School to create microelectronic devices with nanoscale features for sensors and actuators. (EQ)

Purchase - Individually-Ventilated Caging System 600,000

This equipment, to be used in A-Tower, will create significant improvement in environmental control for irreplaceable rodent colonies; significantly enhanced space and labor utilization. (EQ)

Purchase - Individually-Ventilated Caging System 597,000 RF

This equipment, to be used in the RRC, will make a significant improvement in environmental control for irreplaceable rodent colonies; significantly enhanced space and labor utilization. (EQ)

Purchase - IT Data Center Support Systems 20,000,000

Provide data center infrastructure to support university administrative, instructional, and research systems, including containerized products and integrated modular data center solutions. (IT)

Purchase - Land Near Belknap Campus-North 8,000,000 RF

This will provide authorization for purchase of land near the north end of Belknap Campus should it become available. (C-O)

Purchase - Land Near Belknap Campus-South

6,000,000 RF

This will provide authorization for purchase of land near the south end of Belknap Campus should it become available. (C-O)

Purchase - Land Near HSC - Parcel I

34,246,000 OT-P

This project will purchase property adjacent to the Health Sciences Campus, should it become available. This property is 3.38 acres that currently contains a 106,428 gross square foot office building. The existing building will house offices for faculty and staff in the School of Medicine. (C-PI)

Purchase - Land Near HSC - Parcel II

6,034,000 RF

This authorization will be used to purchase property adjacent to the Health Sciences Campus within the current Louisville Medical Center. The university will purchase, should the land become available, a 2.8-acre parcel of land having 11,275 SF of commercial improvements and a 2,790 SF residence. The university will use the existing improvements prior to planned future redevelopment to accommodate campus expansion. (C-O)

Purchase - Land Near HSC - Parcel III

3.000.000 RF

This would grant the authorization to purchase a parcel of land near the Health Science Center campus bounded by Clay & Shelby Streets to the east and west and by Chestnut Street to the south, should it become available. The parcel covers approximately 2 acres. (C-O)

Purchase - Laser Jet Cutting System

750,000 FF

This equipment (Laser Jet Cutting System) will be used by the BioEngineering department of the Speed School for precision cutting of materials and biological specimens for analysis. (EQ)

Purchase - Library Chairs and Tables

275,000 RF

A number of existing tables and chairs in Ekstrom, Art, Kornhauser, and Music libraries and the University Archives & Records Center are now between 30 - 35 years old and are in desperate need of replacement. (EQ)

Purchase - Live Cell Intracellular Nanoprobe Sta

400,000 FF

This equipment (Live Cell Intracellular Nanoprobe Station) will be used by the Electrical and Computer Engineering (ECE) department of the Speed School to characterize and analyze cellular behavior for biomedical applications. (EQ)

Purchase - Magnetic Resonance Imaging Equipment 3,000,000 FF

The functional Magnetic Resonance Imaging (fMRI) equipment provides a non-invasive way to image the brain activities in the alert human subjects (mind imaging). Because combining behavioral and imaging techniques is an emerging area/discipline of psychological research, having an fMRI scanner will give the university a competitive edge in attracting new faculty and students. (EQ)

Purchase - Magnetic Resonance Imaging System

3.000.000 FF

This equipment (Magnetic Resonance Imaging System) will be used by the Bioengineering department of the Speed School to perform research on imaging methods for disease detection. (EQ)

Purchase - MALDI-TOF Mass Spectrometer

500,000 FF

The AB-4800 plus MALDI-TOF(Matrix Assisted Laser Description Ionization - Time of Flight) Mass Spectrometer is used for the identification and characterization of proteins and synthetic macromolecules. (EQ)

Purchase - MALDI-TOF Mass Spectrometer

500,000 FF

MALDI-TOF mass spectrometer will functionally replace the current workload of an older MALDI TOF/TOF instrument (EQ)

Purchase - Metal Additive Fabrication Machine

800,000 FF

This equipment (Metal Additive Fabrication Machine) will be used by the Rapid Protyping Center (RPC) of the Speed School to create prototypes and investigate direct digital manufacturing. (EQ)

Purchase - Micro Computed Tomography

350,000 FF

This equipment will be used for reconstructing three dimensional images of bone and hard issue in living specimens. (EQ)

Purchase - Mobile Animal Runs

323,000 RF

This equipment will fit newly developed space for increasing large animal needs. (EQ)

Purchase - MoFlo Cell Sorter

500,000 FF

This instrument can be used to isolate live cells from tissues, such as the retina, based on expression of markers on the cell surface. These cells can then be used for gene expression and biochemical analysis. (EQ)

Purchase - Multiphoton Microscope

500,000 RF

Imaging is an important component of biochemical research at the cellular and molecular level. Modern imaging technology allows for extremely high resolution. This microscope will provide cutting edge imaging technology for multiple users in the Department of Biochemistry. This instrument has the capacity to look deep inside tissues with sub cellular resolution. It is used extensively to study the cause of neurological diseases and the cause of cancer. (EQ)

Purchase - Multispectral Imaging Flow Cytometer

390,000 RF

Modern biomedical research in cell and developmental biology requires the ability to measure the amount, location, and movement of molecules on, in, or between cells. This system allows measurement of location and co-localization of multiple markers (proteins) on or within cells, as well as quantization of morphologically distinct cell subpopulations. (EQ)

Purchase - Nanoindenter

225,000 FF

This equipment (Nanoindenter) will be used in the Speed School by the Conn Center to measure mechanical properties of materials at nano scale. (EQ)

Purchase - Nanomaterial Equipment

500,000 RF

This equipment will be used to characterize the physical properties of novel nanomaterials and nanostructures used inside the Belknap Research Building Cleanroom. (EQ)

Purchase - Networking System

8,000,000 RF

Networking system to provide high speed integrated voice, data, and video access for campus wise-area networks and access to external networks. The Networking System will be an upgrade/replacement to existing enterprise and network infrastructure systems dependent upon the technology available and service needs in the respective fiscal year. Systems necessary to meet the increased networking needs of the university faculty, staff, student and administrators. (IT)

Purchase - OPUS Urology Table

300.000 RF

This equipment (OPUS Urology Table) will be used by the Neurological Surgery. The urology table will allow physicians to study bladder function issues in relation to neurological disease or damage, to identify problems and measure recovery of function. (EQ)

Purchase - Orbitrap Ion Trap Mass Spectrometer

712,000 FF

The LTQ Orbitrap XLTM FTMS supports a wide range of applications from routine compound identification to analysis of low-level components in complex mixtures. (EQ)

Purchase - Orbitrap Mass Spectrometer

93.000 FF

This unit allows identification and quantification of proteins in biological samples. (EQ)

Purchase – PCs, Printers, Scanners for Libraries

700,000 RF/OT-P

Computer processing system to provide computing resources in support of administration, instruction, and research for faculty, staff and students. The University Libraries currently have more than 600 PCs and laptops. In order to continue its service of providing up-to-date technology to faculty and students, worn out and outdated PCs and laptops need to be replaced continuously. This is an on-going effort. (IT)

Purchase - Plastic Additive Manufacturing Machine 900,000 FF

This equipment (Large Frame Plastic Additive Manufacturing Machine) will be used by the Rapid Prototyping Center of the Speed School for creating prototypes and investigating direct digital manufacturing. (EQ)

Purchase - Positron Emission Tomography System 2,500,000 FF

This equipment (Positron Emission Tomography/Computed Tomography System) will be used by the Bioengineering department of the Speed School to perform research on imaging methods for disease detection. (EQ)

Purchase - Reactive Ion Etching System

250,000 FF

This equipment (Reactive Ion Etching System) will be used by the Electrical and Computer Engineering (ECE) department of the Speed School. This chamber will attach to existing Deep Reactive Ion Etch systems to machine high aspect ratio structures in glass. Will be used to create microelectronic microstructures with deep, high-aspect ratio features for sensors and actuators. (EQ)

Purchase - Research Computing Infrastructure

7,000,000 RF

This equipment will enhance the research computing infrastructure by providing unix clusters, supercomputers, data management systems, visualization systems, grid resources, storage and networking to support the research mission and activities of the university. (IT)

Purchase - Research Equipment for Dental

210,000 FF

This equipment (Research Equipment for Dental School) will be used to test animals in the research lab. Research Equipment for Dental School includes: two cigarette smoke inhalation exposure chambers and three animal vent racks for housing study animals. (EQ)

Purchase - Resonance Raman Spectrometer

500,000 FF

The Resonance Raman spectroscopy is used to study the structure and vibrations of molecules. It can be used on very small samples and is particularly useful for biomolecules. (EQ)

Purchase - Robotic Cranes (2) for Automated Book 2,200,000 RF

These two robotic cranes are in addition to the two robotic cranes recently installed in the New Wing of the Ekstrom Library. This will complete the automated book storage and retrieval system of the library. This system will provide a highly cost effective use of floor space, storing 1.2 million books, journals, manuscripts, etc., in a space of only 8,000 NSF. This system will provide an efficient and systematic storage and retrieval of library materials in a temperature-controlled environment. Library materials contained in this on-site storage facility can be browsed electronically via Minerva, the University Libraries' on-line catalog. (EQ)

Purchase - Rodent Plastic Caging

398,000 RF

Replacement caging for existing animal colonies; caging has deteriorated (cloudy, cracked, crazed). (EQ)

Purchase - Biological Microwave Microscope

600,000 FF

This equipment (Scanning Biological Microwave Microscope) will be used by the Electrical and Computer Engineering (ECE) department of the Speed School to investigate biological cell and nano-material interactions. (EQ)

Purchase - Security and Firewall Infrastructure

4,000,000 RF

This equipment will enhance the security and firewall infrastructure to protect university data and systems from unauthorized access, intrusion and compromise. (IT)

Purchase - Shared Memory Computer

500,000 RF

Shared memory computer to support research in the department of Physics, specifically atomistic simulations of nano-scale materials with potential applications in energy studies. In particular, for the design of novel photovoltaic elements that may improve the cost/watt performance of present day solar cells and for hydrogen storage applications based on novel designs of materials. (IT)

Purchase - Small Animal Computed Tomography

400,000 RF

This equipment (Small Animal Computed Tomography) will be used by the Radiology Department of the School of Medicine. Recent technological advances require the replacement of the current unit for providing imaging research services to more disciplines. (EQ)

Purchase - Small Animal Positron Emission Tomogr 600,000 RF

The life for this unit will come to an end soon because Siemens will stop providing services. This equipment will replace the current unit. (EQ)

Purchase - Small Animal Single Photon Emission T 400,000 RF

Small animal single photon emission tomography (SPECT) imaging will greatly enhance the current imaging services provided to researchers for increasing their discovery and fundability. (EQ)

Purchase - Spectral Confocal Microscope

440.000 FF

This equipment provides the capability to assess protein expression in normal and mutated ocular tissue that is beyond the capacity of any other microscope on campus. With the addition of this microscope, PIs will be able to perform experiments, in which the influx or efflux of calcium can be quantitatively measured, a capability that is currently not available to them. (EQ)

Purchase - Sputtering System

500,000 FF

This equipment (Magnatron Sputtering System) will be used by the Lutz Micro/Nano Technology Center of the Speed School to apply thin films of materials for advanced sensors and devices. (EQ)

Purchase - SQUID Magnetometer

500,000 RF

SQUID (Superconducting Quantum Interference Device) magnetometers measure small magnetic fields. It is useful in interdisciplinary research across a number of areas in chemistry, physics, geology, biology and materials sciences. (EQ)

Purchase - Storage System

6,000,000 RF

Computer processing data storage systems to accommodate storage of research, instruction, and institutional data records and databases. This computer storage system will be an upgrade/replacement to existing storage systems, dependent upon the technology available and data volume necessary to meet the increased computing needs of the university faculty, staff, student, and administrators. (IT)

Purchase - Technology Enhanced Classroom

500,000 RF

Computer equipment and technology to develop experimental high-tech classroom modeled on a physics instruction suite at Massachusetts Institute of Technology (MIT). Studies have indicated the approach to teaching Physics, with this type of classroom, will help with learning of material and retention of at-risk students in science. (IT)

Purchase - Three Tesla Magnetic Resonance Imager 3,000,000 RF

The 3 Tesla unit is a magnetic resonance imaging system that yields increased spatial resolution for the high-quality vascular and anatomic imaging necessary for stem cell studies involving heart and vascular recovery. (EQ)

Purchase - Transmission Electron Microscope

1,500,000 FF

This equipment (Transmission Electron Microscope) will be used by the Conn Center of the Speed School for high resolution imaging for materials research. This microscope will characterize structure and composition in nanomaterials. (EQ)

Purchase – Tunnel Cage Washer

208,000 RF

This will replace current equipment which has surpassed useful expectancy and costly to maintain. (EQ)

Purchase –Two Photon Imaging System

480,000 FF

The 2 Photon imaging system allows higher resolution imaging critical for live cell and tissue studies. (EQ)

Purchase - Two-Photon Laser Scanning Microscope 500,000 FF

Two-photon excitation microscopy (also referred to as non-linear, multiphoton, or two-photon laser scanning microscopy) is an alternative to confocal and deconvolution microscopy that provides distinct advantages for three-dimensional imaging. In particular, two-photon excitation excels at imaging of living cells. (EQ)

Purchase - UHR-TOF Mass Spectrometer

500,000 FF

Ultra-high resolution UHR-TOF will be used in research for fragmentation analysis of whole proteins. (EQ)

Purchase - Ultraview ERS 6FO Confocal Microscope 420,000 RF

Modern multidisciplinary biomedical research interrogating cellular and subcellular processes requires the ability to capture high speed, high quality, high resolution images in live samples, over long periods of time, giving multidimensional data of cellular activity. This equipment is needed to fulfill this requirement. (EQ)

Purchase - Visualization System (Planetarium)

2,000,000 FF

Technology is proposed to transform the Gheens Science Hall and Rauch Planetarium from a traditional planetarium dedicated to astronomy into an all-digital laboratory capable of STEM research and education. The proposed research instrumentation system acquisition includes the projectors and computer clusters needed for the rendering, production and display of volumetric data in an immersive dome environment. (IT)

Purchase & Construct - Chevron Parking Lot

4,430,000 RF

This authorization will allow the university to purchase the Chevron property, a brownfield site on the west side of Belknap Campus, demolish existing buildings and construct a surface parking lot with approximately 1240 spaces including lighting and security features. (C-O)

Renovate - Burhans Hall

15,537,000 RF

This project will renovate 72,700 GSF in Burhans Hall located on the Shelby Campus. The building was originally constructed as a classroom and administration building. It was designed in 1960 and needs major system renewal and renovation to complement its emerging role as one of two major university facilities in the Shelby Campus Science and Technology Park. (C-PI)

Renovate - Chemistry Fume Hood Redesign, Ph II 16,467,000 RF

This project will address the second phase of life/safety improvements to the ventilation system in the Chemistry Building, including: replacement of 105 existing fume hoods, installation of an additional 40 hoods for organic laboratories, replacement of the two remaining air handling units, installation of a building VAV control system, energy recovery system, and related ductwork improvements. Upon completion of this work, the building ventilation will have been completely refurbished. (C-PI)

Renovate - Code Improvement Pool

4,047,000 RF

The code improvement project pool will allow the university to address seven different areas, which are: data collection panel, security panels, fire alarm systems, elevators/escalators, emergency generators, sprinkler systems, environmental health and safety projects. This project pool is necessary to bring university-owned buildings into compliance with current federal and state life and fire safety building codes. (C-PI)

Renovate - College of Business Classrooms

1,200,000 RF

This project would renovate and upgrade 12 classrooms in the College of Business to improve and update the technology in the teaching spaces. (C-PI)

Renovate - College of Business Faculty Offices

2,000,000 RF

This project will renovate 87 faculty offices in the north wing of the College of Business. (C-PI)

Renovate - College of Education Building

28,383,000 RF

This project will include renovation and renewal of classrooms, department and faculty offices for the College of Education and Human Development. The project will include a total renovation of the 95,479 GSF building (completed in 1981) with a primary focus on providing facilities for training teachers to integrate modern media and interactive learning into today's curriculum at the elementary and high school levels, helping to insure a better prepared work force for the future job market within the Commonwealth. Completion of this project will help provide the needed teaching facilities for increased emphasis on laboratory experience and collaborative work where students are more active participants in the learning process. This need is reflected in the unsatisfactory rating of 1.5 when rated by VFA for adequacy and fit for continued use. (C-PI)

Renovate - Ekstrom Library

44,705,000 RF

The Ekstrom Library occupies a 297,000 SF building, including the recent addition, and serves as the main academic library. This renovation of most of the original space is needed to address the requirements of a high level research institution and further the development in accordance with the university academic and research mandates. Infrastructures for distribution of electrical and data need to be updated to accommodate use of electric journals, media and internet access. The project will include refurbishing, updating and upgrades to the entire original facility along with major renewal of building mechanical, electrical and lighting systems. (C-PI)

Renovate - Gross Anatomy Lab

5,520,000 RF

This project will renovate the University's 9000 square foot Gross Anatomy Lab in the Health Sciences Center Instructional Building, including a complete replacement of the HVAC system, autopsy exhaust and electrical systems. The lab must be expanded to accommodate the increase in class size of both the Schools of Medicine and Dentistry, and will allow for the installation of imaging and computer-based instructional systems for the display of MRI, computer tomography and x-ray images to simulate diagnostic tools used in current professional practice. (C-PI)

Renovate - Housing - Capital Renewal Pool

4,400,000 RF

The Capital Renewal Pool will allow the university to address approximately five types of projects: roof replacement, exterior building upgrades, interior building upgrades, mechanical upgrades and life/fire safety code improvements. (C-PI)

Renovate - J.B. Speed Building

12,200,000 RF

The project will include renovation of the exterior and a total interior renovation of 40,974 GSF J. B. Speed Building, the centerpiece structure of J.B. Speed School of Engineering. The building has received only minimal renovation since original construction in 1942. (C-PI)

Renovate - Kornhauser Library

16,030,000 RF

The Kornhauser Library, on the Health Sciences Center Campus, is a 72,147 GSF facility serving the research and academic needs of Medical, Dental, Nursing, Public Health and Informational Science programs for graduate, doctoral and post-doctoral programs. The present facility was not envisioned to accommodate modern computer intense learning and research technology. It is essential that the building receives total modernization, including replacement mechanical, electrical, voice/data systems along with being reconfigured to meet the needs of current biomedical curriculums that stress group-based learning and problem solving in a technology rich environment. (C-PI)

Renovate - KY Lions Eye Research Institute

19,860,000 RF

This project will renovate the entire original portions (42,078 GSF) of the Kentucky Lions Eye Research Institute (KLERI) Building. The building was constructed in 1969 and is in need of major renovation, modernization and renewal of building systems to continue its mission of supporting health sciences research. (C-PI)

Renovate - Law School

36,081,000 RF

Louis D. Brandeis School of Law occupies a total of 144,186 GSF and is comprised of three attached buildings: the original building constructed in 1939; west addition in 1974; and east addition in 1979. Little significant building renovation or modernization has occurred since completion of the 1979 addition. This project will include a total building renovation to create a more efficient facility. Building system improvements will include modernization of voice/data, mechanical, electrical and lighting systems along with exterior envelope renovation and replacement of windows and entrance doors. (C-PI)

Renovate - Life Sciences Building Vivarium

1,096,000 RF

This project would renovate and upgrade the vivarium facilities in the Life Sciences Building on Belknap Campus. (C-PI)

Renovate - Medical School Tower-55A

75,768,000 RF

This authorization will renovate the entire Medical School Tower including laboratory, laboratory support, and research office space. The Medical School Tower Building (55A) was opened in 1970 to provide research and academic space for the School of Medicine's Basic Science Departments. Since that time, no significant renovations have taken place. With the changes in research and technology requirements, this project will allow the reconfiguration and updating of this facility to maximize space utilization and create modern and functional research laboratories and associated support spaces. (C-PI)

Renovate - Miller Hall

17,087,000 RF

This authorization will allow the University to renovate approximately 66,000 SF of space currently used as a dormitory and convert to office space. The facility, constructed in 1966, is in need of major renewal for building systems (HVAC, plumbing, voice/data, electrical, roof and window replacement). (C-PI)

Renovate - Natural Science Building

23,508,000 RF

This authorization allows the renovation of classrooms, teaching labs, departmental and faculty offices for Mathematics, Physics, and Geology. The project will include renewal of the building exterior including window, door and roof replacement, site and accessibility improvements, and interior renovations. The 87,410 GSF building has not undergone a comprehensive building renovation since its completion in 1953. (C-PI)

Renovate - Oppenheimer Hall

4,792,000 RF

This project will involve the renovation of the existing building which was constructed in 1885(last renovated in 1955). The renovation of the 10,979 GSF facility will include restoration of the exterior (replacement of existing windows & doors and entrance portico) and interior refurbishment of classrooms and departmental/faculty offices along with modernization of building mechanical, lighting and electrical systems. (C-O)

Renovate - Research Resource Center

14,708,000 RF

This project will renovate the Research Resource Center building and replace aging equipment and upgrade HVAC system. This facility supports the research programs on the Health Sciences Center campus. (C-PI)

Renovate - W.S. Speed Building

11,927,000 RF

The project will include renovation of the exterior and a total interior renovation of 39,531 GSF of the W.S. Speed Building, part of the J.B. Speed School of Engineering. The building has received only minimal renovation since its original construction in 1957. (C-PI)

Utility Distribution - South Belknap Campus

12,000,000 RF

The project will extend the Belknap Campus utility distribution system by 1700 lineal feet providing enhanced Steam/Chilled Water, Electrical, Voice and Data services to the areas south of Eastern Parkway. These improvements will complete a South Campus Distribution Loop, ensuring dependable/maintainable utility services to all existing buildings in the Speed Engineering School complex and provide readily available primary utilities for future growth and development of the approximately 12 acres south of Eastern Parkway. (C-O)

UNIVERSITY OF LOUISVILLE - cont'd

Proposed Projects NOT Involving the General Fund, Road Fund, or Agency Bonds (amounts in **bold** are the total budget)

2014-2016

Construct - Flexner Way Mall-Hancock to Clay	\$1,500,000	RF
Purchase - Land Near HSC - Parcel IV	3,000,000	RF
Renovate - Bingham Humanities Building	34,530,000	RF
Renovate - Ford Hall	4,197,000	RF
Renovate - Gardiner Hall	8,422,000	RF
Renovate - Gottschalk Hall	3,829,000	RF
Renovate - Jouett Hall	3,427,000	RF
Renovate - Sackett Hall	8,700,000	RF
Renovate - Schneider Hall	19,682,000	RF
Renovate - Threlkeld Hall	17,804,000	RF

2016-2018 None